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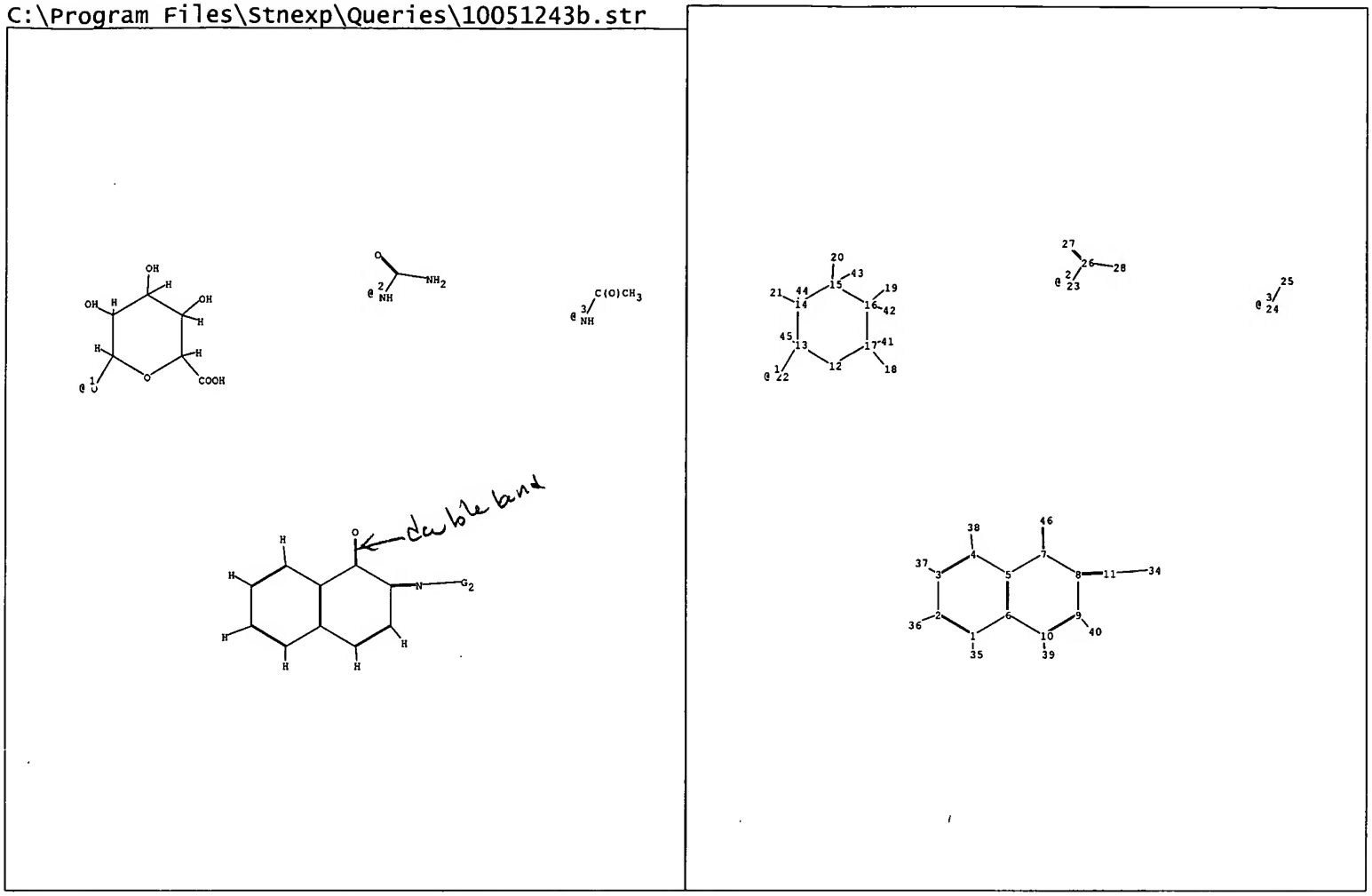


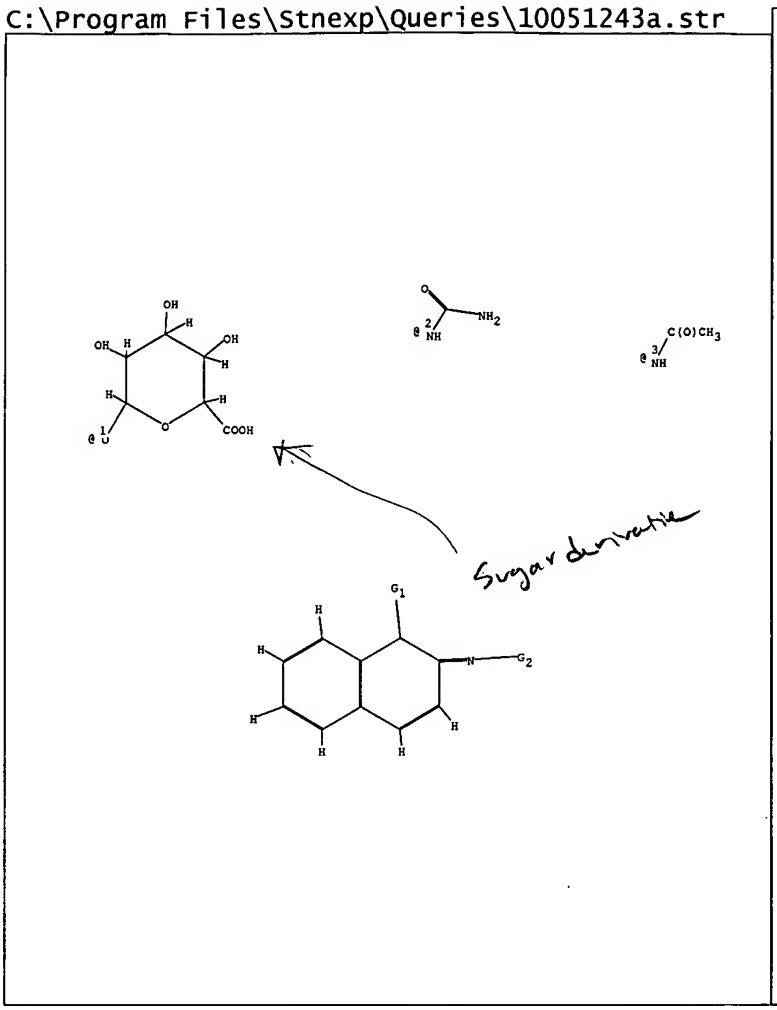
chain nodes :
11 18 19 20 21 22 23 24 25 26 27 28 34 35 36 37 38 39 40 41 42 43
44 45 46
ring nodes :
1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17
chain bonds :
1-35 2-36 3-37 4-38 7-46 8-11 9-40 10-39 11-34 13-22 13-45 14-21 14-44 15-20
15-43 16-19 16-42 17-18 17-41 23-26 24-25 26-27 26-28
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-17 13-14 14-15
15-16 16-17
exact/norm bonds :
5-7 6-10 7-8 7-46 8-9 8-11 9-10 11-34 12-13 12-17 13-14 13-22 14-15 14-21
15-16 15-20 16-17 16-19 23-26 24-25 26-27 26-28
exact bonds :
1-35 2-36 3-37 4-38 9-40 10-39 13-45 14-44 15-43 16-42 17-18 17-41
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

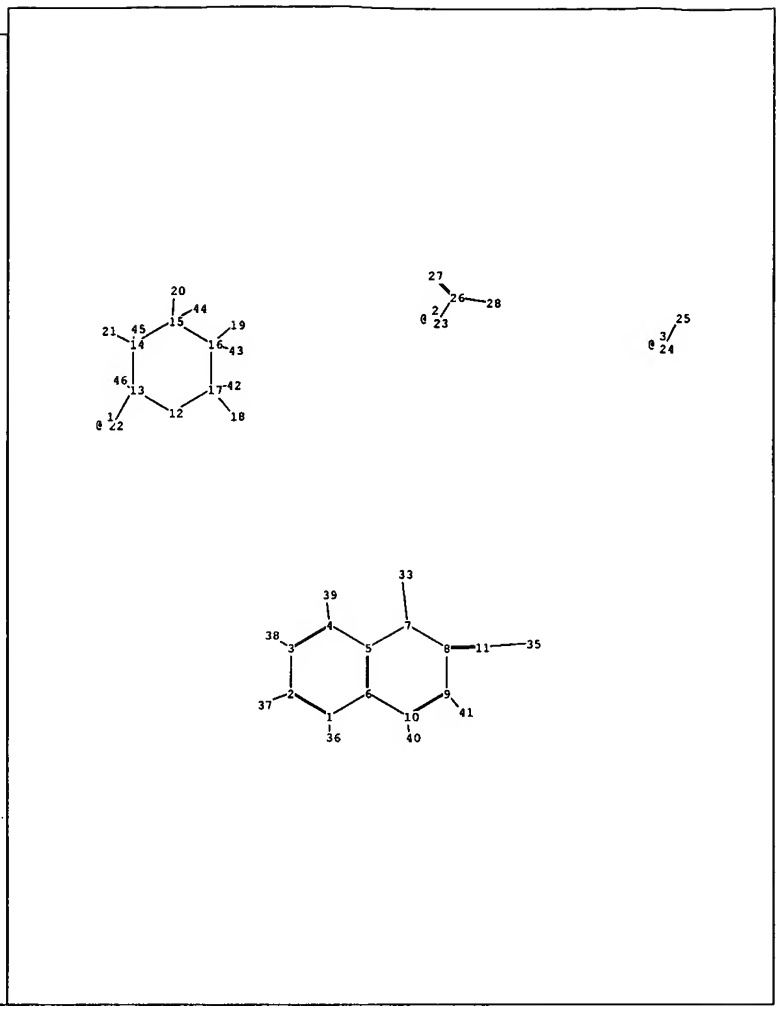
G1:O,[*1]

G2:OH,[*2],[*3]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 34:CLASS
35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
44:CLASS 45:CLASS 46:CLASS

C:\Program Files\Stnexp\Queries\10051243a.str





chain nodes :
11 18 19 20 21 22 23 24 25 26 27 28 33 35 36 37 38 39 40 41 42 43
44 45 46
ring nodes :
1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17
chain bonds :
1-36 2-37 3-38 4-39 7-33 8-11 9-41 10-40 11-35 13-22 13-46 14-21 14-45 15-20
15-44 16-19 16-43 17-18 17-42 23-26 24-25 26-27 26-28
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-17 13-14 14-15
15-16 16-17
exact/norm bonds :
5-7 6-10 7-8 7-33 8-9 8-11 9-10 11-35 12-13 12-17 13-14 13-22 14-15 14-21
15-16 15-20 16-17 16-19 23-26 24-25 26-27 26-28
exact bonds :
1-36 2-37 3-38 4-39 9-41 10-40 13-46 14-45 15-44 16-43 17-18 17-42
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,[*1]

G2:OH,[*2],[*3]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 33:CLASS
35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
44:CLASS 45:CLASS 46:CLASS

Uploading C:\Program Files\Stnexp\Queries\10051243a.str

L3 STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l3 sam
SAMPLE SEARCH INITIATED 15:25:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2029 TO ITERATE

49.3% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 37879 TO 43281
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> s l3 full
FULL SEARCH INITIATED 15:25:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 42444 TO ITERATE

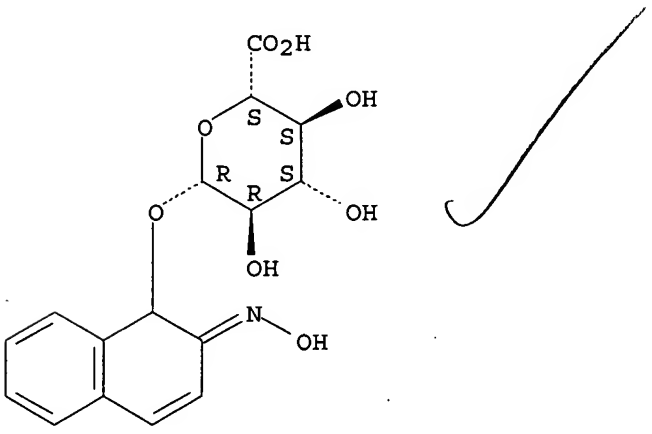
100.0% PROCESSED 42444 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

L5 6 SEA SSS FUL L3

=> d scan str

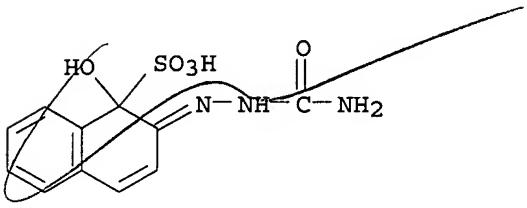
L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

Absolute stereochemistry.
Double bond geometry unknown.



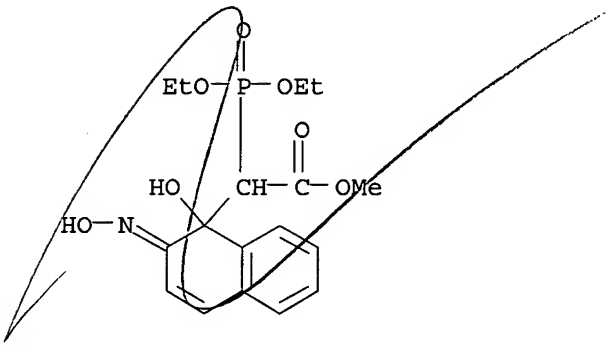
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

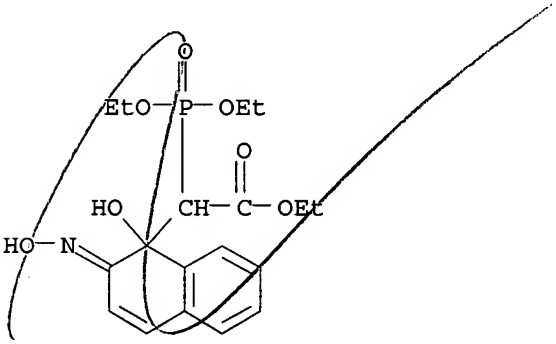


● Na

L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

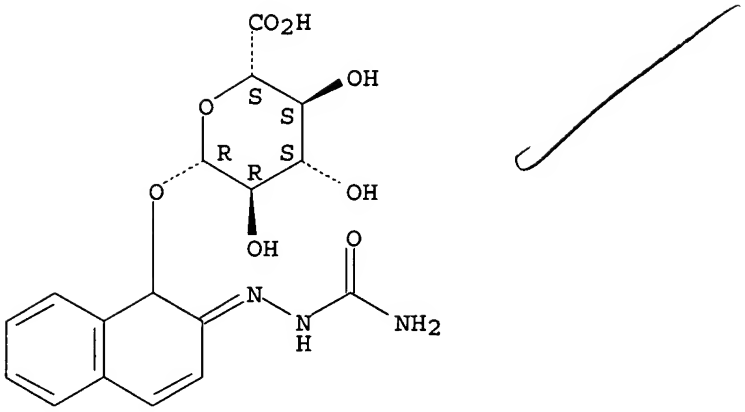


L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN



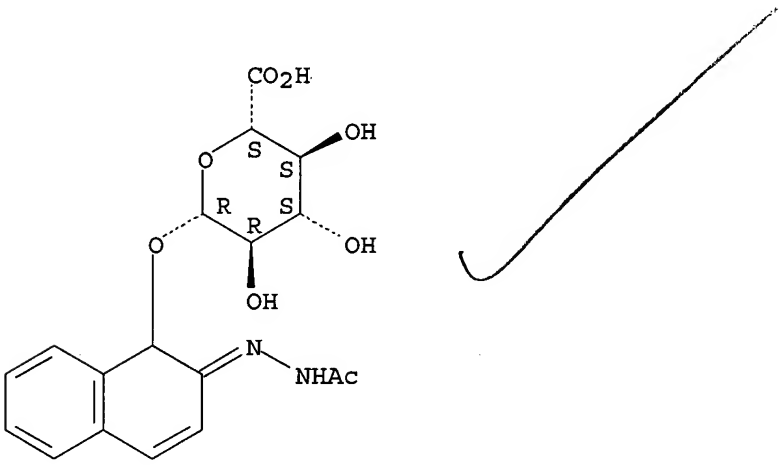
L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

Absolute stereochemistry.
Double bond geometry unknown.



L5 6 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

Absolute stereochemistry.
Double bond geometry unknown.



ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	156.68	164.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.66

FILE 'CAPLUS' ENTERED AT 15:26:59 ON 05 AUG 2004
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 5 Aug 2004 VOL 141 ISS 6
FILE LAST UPDATED: 3 Aug 2004 (20040803/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> d hist

     (FILE 'HOME' ENTERED AT 15:20:41 ON 05 AUG 2004)

     FILE 'REGISTRY' ENTERED AT 15:20:54 ON 05 AUG 2004
L1              STRUCTURE UPLOADED
L2            1 S L1 SAM

     FILE 'REGISTRY' ENTERED AT 15:24:38 ON 05 AUG 2004
L3              STRUCTURE UPLOADED
L4            0 S L3 SAM
L5            6 S L3 FULL

     FILE 'CAPLUS' ENTERED AT 15:26:59 ON 05 AUG 2004

=> s l5 and glutamate
              4 L5
          91434 GLUTAMATE
           1060 GLUTAMATES
          91806 GLUTAMATE
                  (GLUTAMATE OR GLUTAMATES)
L6            2 L5 AND GLUTAMATE

=> s l5 and neuron
              4 L5
          75184 NEURON
         127129 NEURONS
         151052 NEURON
                  (NEURON OR NEURONS)
L7            0 L5 AND NEURON

=> s l5 and nmda
              4 L5
          22641 NMDA
              2 NMDAS
          22641 NMDA
                  (NMDA OR NMDAS)
L8            0 L5 AND NMDA

=> d fbib abs hitstr total l6

L6   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2001:63831  CAPLUS
DN   134:125960
TI   Use of β-naphthoquinone derivatives for making medicines having an
```

inhibiting effect on the release of **glutamate** by the brain

IN Israel, Maurice; Molgo, Jordi; Bloy, Christian; Mattei, Cesar

PA Centre National de la Recherche Scientifique (C.N.R.S.), Fr.

SO PCT Int. Appl., 22 pp.
CODEN: PIXXD2

DT Patent

LA French

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001005404	A1	20010125	WO 2000-FR2120	20000721
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
			FR 1999-9469 A	19990721
FR 2796552	A1	20010126	FR 1999-9469	19990721
EP 1196176	A1	20020417	EP 2000-958596	20000721
EP 1196176	B1	20040204		
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			FR 1999-9469 A	19990721
			WO 2000-FR2120 W	20000721
JP 2003504405	T2	20030204	JP 2001-510459	20000721
			FR 1999-9469 A	19990721
			WO 2000-FR2120 W	20000721
AT 258798	E	20040215	AT 2000-958596	20000721
			FR 1999-9469 A	19990721
			WO 2000-FR2120 W	20000721
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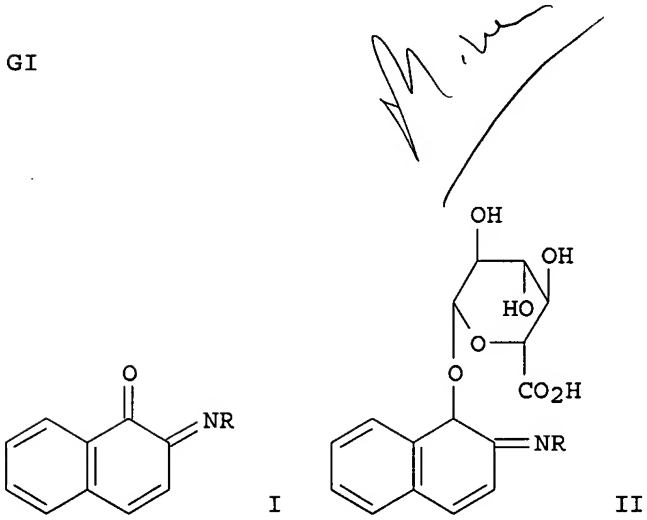


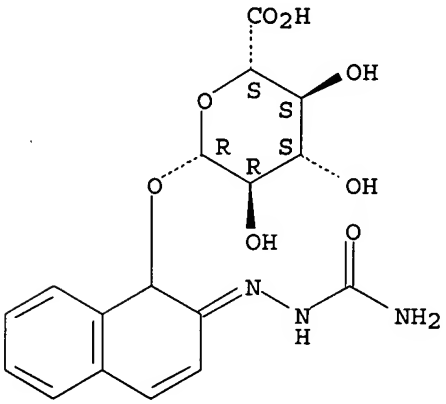
I II

AB β-Naphthoquinone derivs. are provided for making medicines with an inhibiting effect on the release of **glutamate** by the brain, the derivs. corresponding to I (R = NHCONH2, NHCOCH3, OH) and glucuronide derivs. II and their pharmaceutically acceptable acid addition salts. The invention is applicable to neurol. diseases.

IT **250585-74-1 321546-47-8 321546-48-9**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(β-naphthoquinone derivs. for inhibiting release of **glutamate** in brain)

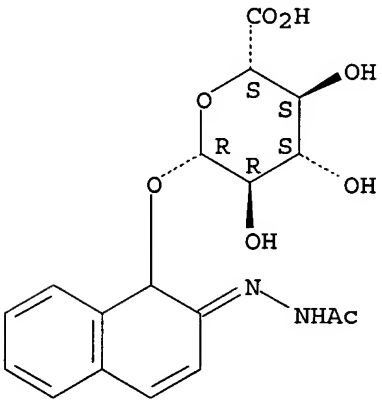
RN 250585-74-1 CAPLUS
CN β-D-Glucopyranosiduronic acid, 2-[(aminocarbonyl)hydrazono]-1,2-dihydro-1-naphthalenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



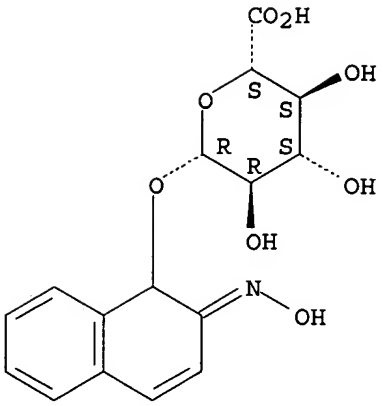
RN 321546-47-8 CAPLUS
CN β-D-Glucopyranosiduronic acid, 2-(acetylhydrazono)-1,2-dihydro-1-naphthalenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RN 321546-48-9 CAPLUS
CN β-D-Glucopyranosiduronic acid, 1,2-dihydro-2-(hydroxyimino)-1-naphthalenyl (9CI) (CA INDEX NAME)

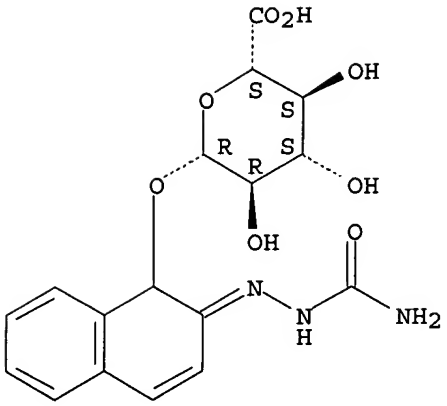
Absolute stereochemistry.
Double bond geometry unknown.



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:520285 CAPLUS
DN 131:346372
TI Naftazone reduces **glutamate** cerebrospinal fluid levels in rats and **glutamate** release from mouse cerebellum synaptosomes
AU Mattei, C.; Molgo, J.; Joseph, X.; Israe, M.; Bloy, C.
CS Institute of Medical Sciences,Department of Biomedical Sciences, University of Aberdeen, Aberdeen, UK
SO Neuroscience Letters (1999), 271(3), 183-186
CODEN: NELED5; ISSN: 0304-3940
PB Elsevier Science Ireland Ltd.
DT Journal
LA English
AB It is well known that an excessive release of **glutamate** in the mammalian brain plays a major role in several neurol. diseases. Naftazone (Etioven®) is a currently used vasoprotectant drug that is metabolized in humans by reduction and glucuronidation. In the present study naftazone was found to decrease **glutamate** levels in the cerebrospinal fluid (CSF) of rats treated for 15 days, as determined by a chemiluminescent **glutamate** assay reaction. Naftazone and its glucuronide derivative also reduced resp. spontaneous and high K+-evoked **glutamate** release from mouse cerebellum synaptosomes. It is likely that naftazone and its glucuronide metabolite contribute in vivo to decrease **glutamate** levels in the CSF through their inhibitory actions on **glutamate** release.
IT **250585-74-1**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(naftazone reduces **glutamate** cerebrospinal fluid levels in rats and **glutamate** release from mouse cerebellum synaptosomes)
RN 250585-74-1 CAPLUS
CN β-D-Glucopyranosiduronic acid, 2-[(aminocarbonyl)hydrazono]-1,2-dihydro-1-naphthalenyl (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L1                STRUCTURE UPLOADED
L2              1 S L1 SAM

     FILE 'REGISTRY' ENTERED AT 15:24:38 ON 05 AUG 2004
L3                STRUCTURE UPLOADED
L4              0 S L3 SAM
L5              6 S L3 FULL

     FILE 'CAPLUS' ENTERED AT 15:26:59 ON 05 AUG 2004
L6              2 S L5 AND GLUTAMATE
L7              0 S L5 AND NEURON
L8              0 S L5 AND NMDA
L9                STRUCTURE UPLOADED
                  S L9

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L10             0 S L9 SAM

     FILE 'CAPLUS' ENTERED AT 15:30:00 ON 05 AUG 2004
L11             0 S L10 SAM

     FILE 'REGISTRY' ENTERED AT 15:30:18 ON 05 AUG 2004

=> s l9 full
FULL SEARCH INITIATED 15:30:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    134 TO ITERATE

100.0% PROCESSED     134 ITERATIONS                    0 ANSWERS
SEARCH TIME: 00.00.01

L12             0 SEA SSS FUL L9
```

sugar derivative

no sugar (0)